**Index of Claims** 

| Α | pp | lica | itic | n/ | Co | nti | rol | No. |
|---|----|------|------|----|----|-----|-----|-----|
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10/607,158 Examiner

Amine Riad

Applicant(s)/Patent under Reexamination

YAMADA, KOICHI Art Unit

2113

| √ | Rejected | _            |  |
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| _ | Allowed  | [ <u>.</u> ] |  |

| _ | (Through numeral)<br>Cancelled |
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| ÷ | Restricted                     |

| Z | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
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| E       | Cla   | aim Date |  |                         | Claim Date |          |          |                 |          |          |          |       | 7        | Claim Date |                 |          |   |        |          |                         |          |          | ٦        |          |          |          |                 |          |          |          |                    |           |
|---|-------|----------|--|-------------------------|------------|----------|----------|-----------------|----------|----------|----------|-------|----------|------------|-----------------|----------|---|--------|----------|-------------------------|----------|----------|----------|----------|----------|----------|-----------------|----------|----------|----------|--------------------|-----------|
| 1   √   101   102   102   102   103   103   103   104   105   105   105   105   105   105   105   105   105   105   106   107   105   106   107   105   106   107<  | 010   |          | <del>                                     </del> | П                       | Т          | Ť        | 1        |                 |          | $\neg$   | $\dashv$ |       |          | $\neg$     | Т               |          | Ť   | Ť      | П        | Т                       | $\dashv$ | <u> </u> |          | $\neg$   |          | Т        | Ť               | Ť        | $\neg$   | Т        | $\neg$             | ᅱ         |
| 102   | Final | Original | 3/1/06   |                         |            |          |          |                 |          |          |          | Finat | Original |            | ì               |          |   |        |          |                         |          | Final    | Original |          |          |          | ,               |          |          |          |                    |           |
| 102   |       | 1        | 1  | $\Box$                  | $\dashv$   | 7        | $\dashv$ | _               |          |          |          | -     | 51       | _          | $\dashv$        | +        | $\top$  | T      | H        | 1                       | ヿ゙       |          | 101      |          | $\top$   | 十        | _               | 7        | +        | $\dashv$ | $\top$             | ┪         |
| 3   |       |          |  | t                       | $\top$     | 十        | 7        | 7               | 1        | _        |          | -     |          | $\dashv$   | $\dashv$        | +-       | $\top$  | $\top$ | 1        | $\neg$                  | ┪        |          |          | 一十       | $\dashv$ | $\dashv$ | _               | 十        | _        | 7        | 十                  | ┪         |
| 4   √   54   104   104     5   √   55   105   105     6   √   56   106   107   8     8   √   58   108   109   100<  |       |          |  | 1                       | $\dashv$   | 1        |          | +               |          | $\dashv$ | _        |       |          | $\dashv$   | $\dashv$        | ╅        | 十   | +      | $\Box$   | $\dashv$                | 7        |          |          | _        | $\top$   | 十        | $\top$          | _        | _        | 7        | $\dashv$           | ┪         |
| 5   |       |          |  | $\vdash$                | $\dashv$   | +        | $\dashv$ | $\dashv$        | $\dashv$ | $\dashv$ | _        | 1     |          |            | $\dashv$        | 十        | +   | T      | Ħ        | $\dashv$                | -        |          |          | $\neg$   | $\top$   | 十        | $\dashv$        | ┪        | 十        | $\dashv$ | $\dashv$           | ┪         |
| 6   √   106   107     7   √   107   107     8   √   109   109     10   √   60   110     11   √   60   1110     11   √   62   111     12   √   62   111     13   √   63   113     14   √   66   114     15   √   65   115     16   √   66   116     17   √   66   116     17   √   66   116     17   √   66   116     17   √   66   116     17   √   66   116     17   √   66   116     19   √   68   119     20   √   70   120     21   √   71   121     22   √   72   122     23   √   73   123     24   |       |          |  | t                       | $\dashv$   | +        | _        | _               | $\neg$   | _        |          |       |          | 1          | $\neg$          | $\top$   | ╁   | T      | $\Box$   | -                       | 1        |          |          | $\dashv$ | +        | _        | $\top$          | 十        | $\dashv$ | $\dashv$ | 十                  | ┨         |
| S   |       |          |  | t                       | +          | 1        | _        | _               |          |          | _        |       |          | $\top$     | 十               | +        | 十   | +      | $\vdash$ |                         | ┪        |          |          |          | $\dashv$ | 十        | $\dashv$        | す        | $\dashv$ | $\top$   | 十                  | ┪         |
| S   |       |          |  | t                       | $\dashv$   | T        |          | 寸               |          | $\neg$   | _        |       |          |            | 十               | +        | 1   | $\top$ |          | _                       | $\dashv$ |          |          | 一        | 1        | 十        | $\top$          | T        | $\dashv$ | 十        | $\top$             | ヿ         |
| 9   |       |          |  | $\dagger \lnot \dagger$ | _          | 寸        | T        | 寸               | T        |          | _        |       |          |            | _               | +        | T   | 1      | 1        |                         | 1        | <u> </u> |          |          | 7        | 十        | $\neg$          | 十        | 寸        | 十        | 十                  | ヿ         |
| 10  |       |          |  | T                       | $\dashv$   | T        | T        | 寸               |          | 1        | =        |       |          |            | $\neg$          | $\top$   | $\top$  |        |          | $\neg$                  | 1        |          |          |          |          | ╅        | 十               | 十        | 寸        | T        | 十                  | ヿ         |
| 11  |       |          |  | 1 1                     | 1          | T        | Ì        |                 | 1        |          | _        |       |          | $\neg$     | 十               | $\top$   | T   |        | Ħ        | $\dashv$                | 7        |          |          | T        | $\dashv$ | 寸        | 寸               | T        | $\neg$   | T        | 十                  | ヿ         |
| 12  |       |          |  | $\Box$                  | _          | 7        |          | $\neg$          |          | T        | 7        |       |          | $\dashv$   | $\neg$          | 7        | +   | 1      | П        | $\top$                  | 1        |          |          |          | $\neg$   | $\top$   | $\top$          | $\dashv$ | $\dashv$ | $\top$   | 十                  | ヿ         |
| 13  |       |          |  | $\sqcap$                | +          | ヿ        | $\neg$   |                 |          |          | 7        |       |          | $\dashv$   | 7               | $\top$   | +   | $\top$ | П        |                         |          |          |          | _        | $\neg$   | _        | $\neg$          | $\dashv$ | $\neg$   | $\dashv$ | 十                  | ヿ         |
| 14  |       |          |  |                         | $\top$     | $\neg$   | 一        |                 |          |          | 7        |       |          | $\Box$     | 十               | 十        | 1   | $\top$ | П        | $\top$                  | ٦        |          |          | $\dashv$ |          | 7        | $\neg \vdash$   | ┪        | _        | $\neg$   | $\top$             | ヿ         |
| 15  |       |          |  | $\Box$                  | $\neg$     | $\dashv$ | 1        | T               |          | 1        | 7        |       |          | $\Box$     | $\neg \uparrow$ | $\top$   | $\top$  | 1      | П        | $\top$                  | ٦        |          |          |          |          | $\dashv$ | $\dashv$        | 寸        | $\neg$   | 一        | $\top$             | ヿ         |
| 16  |       |          |  |                         | _          | 7        | $\neg$   |                 | $\neg$   |          |          |       |          |            | $\neg$          |          | -   |        |          |                         |          |          |          |          |          | $\top$   | $\neg \uparrow$ | T        | $\neg$   | T        | T                  | ヿ         |
| 17  |       |          |  | $\sqcap$                | $\top$     | ヿ        | 一        |                 |          | T        | 7        |       |          |            | $\dashv$        | $\top$   | 1   | 1      |          |                         | 7        |          |          |          | $\top$   | $\top$   | $\top$          | $\top$   | $\dashv$ | す        | 十                  | ヿ         |
| 18  |       |          |  | 1                       | 1          | T        | T        |                 | 一        | _        |          |       |          |            | $\dashv$        | $\top$   | $\top$  |        | $\Box$   | $\neg$                  | 7        |          |          | T        | T        | $\top$   | $\top$          | $\neg$   | $\neg$   | _        | $\top$             | ٦         |
| 19  |       |          |  |                         | $\top$     | T        | T        |                 | _        |          | _        |       |          |            | $\top$          | 十        | T   |        | П        | $\neg$                  | 7        |          |          |          |          |          |                 | $\neg$   |          |          | 十                  | ヿ         |
| 120   |       |          |  | 1-1                     | $\dashv$   | 寸        | 寸        |                 |          |          |          |       |          |            | 十               | 十        | T   | 1      |          | _                       |          |          |          | T        | 1        | 7        | $\neg$          | $\neg$   |          | $\dashv$ | 十                  | ヿ         |
| 121   |       |          |  | Ħ                       | $\dashv$   | 7        | $\neg$   |                 |          |          |          |       |          |            | $\neg$          | $\top$   | ┪   | 1      | П        |                         | 7        |          |          |          |          | $\neg$   | $\top$          | T        |          |          |                    | ٦         |
| Text  |       |          |  | t t                     | +          | 1        | $\neg$   | _               |          |          |          |       |          |            | 十               | $\top$   | +-  | $\top$ | H        | $\neg$                  | ┑        |          |          |          |          |          |                 |          |          | T        |                    | ٦         |
| 123   |       |          |  | t                       | $\top$     | _        | ╗        | $\neg \uparrow$ |          |          |          |       |          | $\neg$     | 十               | $\top$   | +-  | 1      | Ħ        |                         | 1        |          |          |          | 一        | T        | $\neg$          | T        |          | $\dashv$ | $\top$             | ٦         |
| 24   √   74   124   125   125   126   125   126   126   126   126   126   126   126   126   126   126   126   127   128   129   129   129   129   130   130   130   130   130   130   131   131   131   131   131   132   132   132   133   133   133   133   133   133   133   133   133   133   133   133   133   133   133   133   133   133   134   133   133   134   133   133   134   133   134   133   133   134   133   134   133   134   135   135   135   135   136   137   137   137   137   137   137   138   138   138   138   138   139   139   140   141   142   142   143   144   144   144   144   144   144   144   144   144   144   145 </td <td></td> <td></td> <td></td> <td>1-1</td> <td>寸</td> <td>寸</td> <td>寸</td> <td>T</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><math>\dashv</math></td> <td>T</td> <td></td> <td></td> <td><math>\neg</math></td> <td>7</td> <td></td> <td>123</td> <td></td> <td>_</td> <td>T</td> <td>T</td> <td></td> <td></td> <td>丁</td> <td>丁</td> <td><math>\exists</math></td> |       |          |  | 1-1                     | 寸          | 寸        | 寸        | T               |          |          |          |       |          |            |                 | $\dashv$ | T   |        |          | $\neg$                  | 7        |          | 123      |          | _        | T        | T               |          |          | 丁        | 丁                  | $\exists$ |
| 75  |       |          |  |                         | T          | T        | T        |                 |          |          |          |       |          |            |                 | $\top$   | $\top$  | 1      | $\Box$   |                         | 7        |          |          |          |          | $\neg$   |                 |          |          | T        | $\top$             |           |
| 26   √     27   77     28   78     29   128     30   80     31   81     32   82     33   83     34   84     35   85     36   86     37   87     38   88     39   99     40   90     41   91     42   92     43   93     44   94     45   96     46   96     47   97     48   99     148   |       |          |  |                         | $\top$     | ヿ        | T        |                 |          |          | _        |       |          | T          | $\neg$          | $\top$   | $\top$  |        | П        |                         | 7        |          |          |          | $\neg$   |          |                 |          |          | $\neg$   | $\top$             |           |
| 27   127   128   128   128   128   128   129   129   130   130   130   130   130   130   131   131   131   131   131   131   132   132   132   133   133   133   133   134   134   134   134   134   134   134   135   135   136   135   136   136   137   136   137   137   138   138   138   139   139   140   141   141   141   141   141   141   142   143   144   144   144   144   144   144   144   144   144   145   146   147   147   147   148   149   14   |       |          |  | Ħ                       | 1          | ┪        | ヿ        |                 |          | T        |          |       |          |            |                 | $\top$   | T   | Τ      |          |                         | ヿ        |          |          |          | $\neg$   | T        |                 |          |          | 丁        | $\top$             |           |
| 28   78   128     29   79   129     30   80   130     31   81   131     32   82   132     33   83   133     34   84   134     35   85   135     36   86   136     37   87   137     38   88   138     39   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   96   146     47   97   147     48   98   148     49   99   149   |       |          | Ť  | t                       | T          | ╅        | 寸        |                 |          |          | ╗        |       |          |            |                 | 十        | 1   |        |          | $\neg$                  | 7        |          |          | $\neg$   | $\neg$   |          |                 | T        |          |          | $\top$             | ٦         |
| 29 79   30 80   31 81   32 82   33 83   34 84   35 85   36 86   37 87   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 96   46 96   47 97   48 98   49 99   144   45 96   46 96   47 97   48 98   49 99   148 149   |       |          |  |                         | T          | T        | 1        |                 |          |          | $\neg$   |       |          |            |                 | $\top$   | $\top$  |        | П        | _                       | 7        |          |          |          | $\neg$   | T        |                 |          |          |          | T                  |           |
| 30 80   31 81   32 82   33 83   34 84   35 85   36 86   37 87   38 88   39 89   40 90   41 91   42 92   43 94   44 94   44 94   45 96   46 96   48 98   49 99   148 98   49 99  |       |          |  | Ħ                       |            | 7        | $\neg$   |                 |          |          | $\neg$   |       |          |            |                 | $\top$   | Τ   | 1      |          | T                       | ٦        |          |          |          | T        |          |                 | П        |          |          | Т                  | П         |
| 31 81   32 33   33 83   34 84   35 85   36 86   37 87   38 88   39 89   40 90   41 91   42 92   43 94   44 94   45 95   46 96   47 97   48 98   49 99   |       |          |  | Ì                       | ┪          | 一        | $\neg$   |                 | İ        |          | $\neg$   |       | 80       |            |                 | $\top$   | 丅   |        |          | T                       | 1        |          | 130      |          | $\neg$   | T        |                 | П        |          |          | П                  |           |
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| 33   83   133   134   134   134   134   135   135   135   136   136   137   136   137   136   137   137   138   138   138   138   138   138   138   139   139   139   140   141   140   141   142   142   142   142   142   142   142   143   144   144   144   144   145   146   145   146   147   148   148   149   |       |          |  |                         |            | ヿ        |          | Ī               |          |          |          |       |          |            | T               |          | $\top$  |        |          |                         | 7        |          |          |          |          |          |                 | T        | $\Box$   |          | П                  | П         |
| 34  |       |          |  |                         |            | T        | 一        | Ī               |          | $\neg$   | $\neg$   |       | 83       |            |                 |          | Т   | 1      | П        |                         |          |          | 133      |          |          |          |                 |          | П        |          | $\Box$             |           |
| 35 86   37 87   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 98   48 99   49 99   |       |          | Г  | $\Box$                  | $\neg$     | $\dashv$ |          |                 |          | $\neg$   | _        |       | 84       |            |                 |          |   |        |          |                         |          |          |          |          |          |          |                 |          |          |          | $\Box$             |           |
| 36 86   37 136   38 137   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 98   48 99   49 149  |       |          |  | П                       | $\top$     | 7        |          |                 |          |          |          |       | 85       |            |                 |          |   |        |          |                         |          |          | 135      |          |          |          |                 |          |          |          |                    |           |
| 37   88   137     38   88   138     39   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   99   149   |       | 36       |  | Πİ                      | $\neg$     | $\dashv$ |          |                 | $\neg$   |          |          |       |          |            |                 |          |   | L      |          |                         |          |          |          |          |          | $\Box$   |                 |          | $\Box$   |          |                    |           |
| 38   88   138     39   90   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149   |       | 37       |  | П                       | 丁          | $\neg$   | $\neg$   |                 |          |          |          |       | 87       |            |                 |          |   |        |          |                         |          |          | 137      |          |          | Ī        |                 |          |          |          |                    |           |
| 39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149   |       |          |  |                         |            |          |          |                 |          |          |          |       |          |            |                 | 1        |   |        |          | I                       |          |          |          |          |          | J        | $oxed{oxed}$    |          |          |          |                    |           |
| 40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149   |       | 39       |  |                         |            | _        | $\neg$   | $\neg$          |          |          |          |       | 89       |            |                 |          |   |        |          | $oldsymbol{\mathbb{T}}$ |          |          | 139      |          | $\Box$   |          | $oxed{oxed}$    |          |          |          |                    |           |
| 41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99   |       | 40       | Г  |                         |            |          |          |                 |          |          |          |       | 90       |            | I               |          | Ι   |        |          |                         |          |          | 140      |          |          | $\Box$   |                 |          |          |          |                    |           |
| 42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99   |       | 41       |  |                         | $\neg$     |          |          | $\Box$          |          |          |          |       | 91       |            | I               | Ι        |   |        |          |                         |          |          | 141      |          |          | I        |                 |          |          | $\Box$   |                    |           |
| 43 93   44 94   45 95   46 96   47 97   48 98   49 99   |       | 42       |  |                         |            | $\Box$   |          | 一               |          |          |          |       | 92       |            |                 |          | $oxed{oxed}$                                      |        |          |                         |          |          | 142      | $\Box$   | $\Box$   | I        | $\Box$          |          |          |          | $\Box$             |           |
| 44 94   45 95   46 96   47 97   48 98   49 99   |       |          |  |                         |            |          |          |                 |          |          |          |       | 93       |            |                 | I        | I   | Ι      |          |                         |          |          |          | $\Box$   |          |          |                 |          |          |          |                    |           |
| 46 96   47 97   48 98   49 148  |       | 44       |  |                         |            |          | _ 1      |                 |          |          |          |       | 94       |            |                 |          | Ι   | Г      |          |                         |          |          | 144      |          |          | $\Box$   |                 |          |          |          | $\Box$             |           |
| 46 96   47 97   48 98   49 148  |       |          |  |                         | $\neg$     | $\dashv$ | $\neg$   | 一               |          |          |          |       | 95       |            |                 |          |   |        |          | ightharpoons            |          |          | 145      |          | $\Box$   |          | $\Box$          |          | $\Box$   | $\Box$   | $\Box$             |           |
| 47 97   48 98   49 99   |       | 46       |  |                         |            |          | T        | ŢÌ              |          |          |          |       | 96       |            | $\Box$          | $\top$   | $oxed{T}$   | Ι      |          |                         |          |          |          |          | $\Box$   |          |                 |          | $\Box$   |          | $\Box$             |           |
| 48 98   49 148   149 149  |       | 47       |  |                         |            |          |          |                 |          |          |          |       | 97       |            |                 |          | $\mathbf{I}$                                      | Γ      |          | $\Box$                  |          |          | 147      |          |          | $\Box$   | $\Box$          | $\prod$  |          | $\Box$   | $\Box$             |           |
| 49 99 149 149   |       | 48       |  |                         | $\Box$     |          |          |                 |          |          |          |       | 98       |            |                 |          |   | I      |          |                         |          |          | 148      |          |          | I        |                 | I        |          |          | $\Box$             |           |
| 50  |       | 49       |  |                         |            |          | _ 1      |                 |          |          |          |       | 99       |            |                 |          | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ | Ι      |          |                         | ]        |          | 149      |          |          |          | $\Box$          | $\Box$   |          |          |                    |           |
| <u> </u>  |       | 50       |  |                         |            |          |          |                 |          |          |          |       | 100      |            | $\Box$          |          | T   | Ι      |          |                         |          |          | 150      |          |          |          |                 |          |          |          | $oldsymbol{\perp}$ |           |